
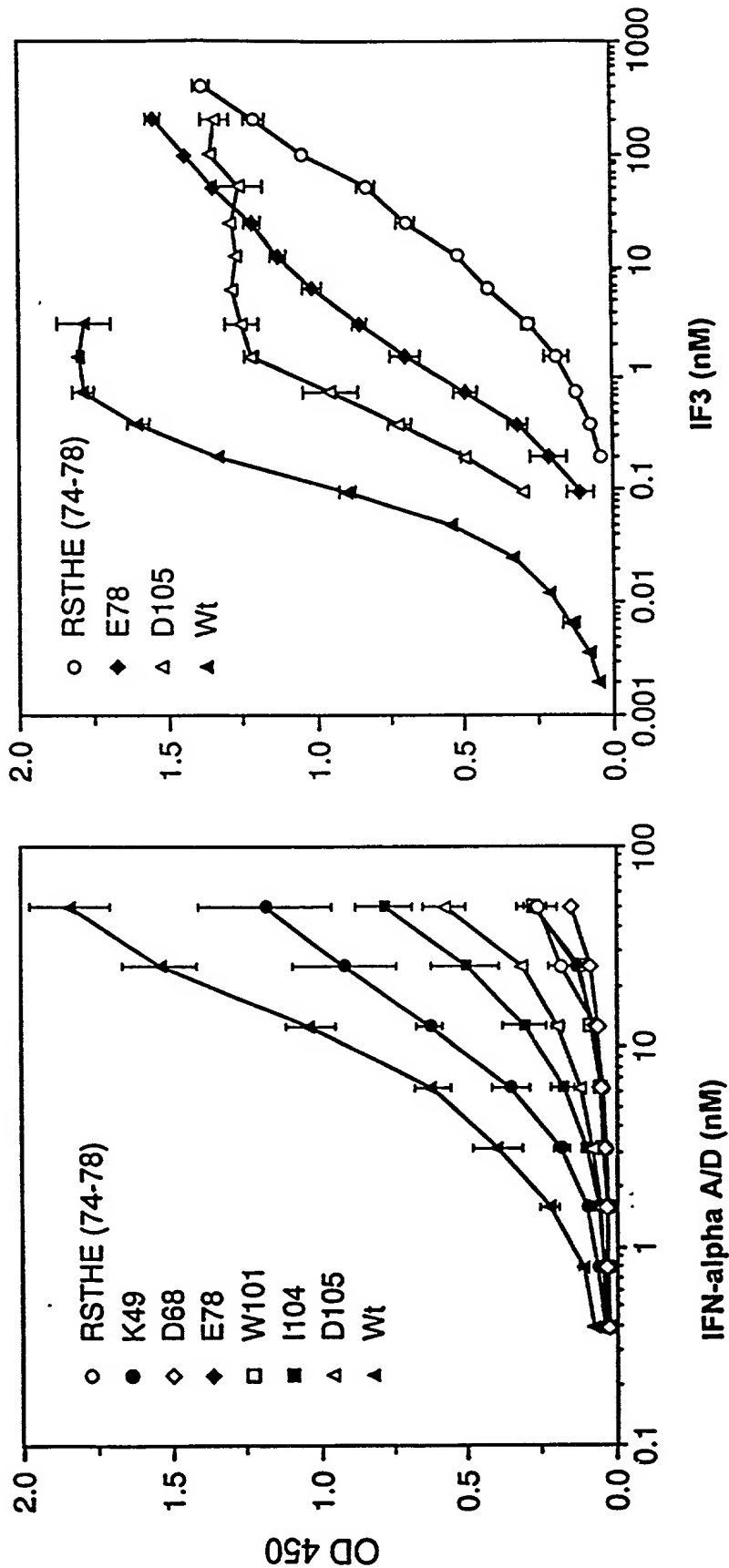


**Figure 1**

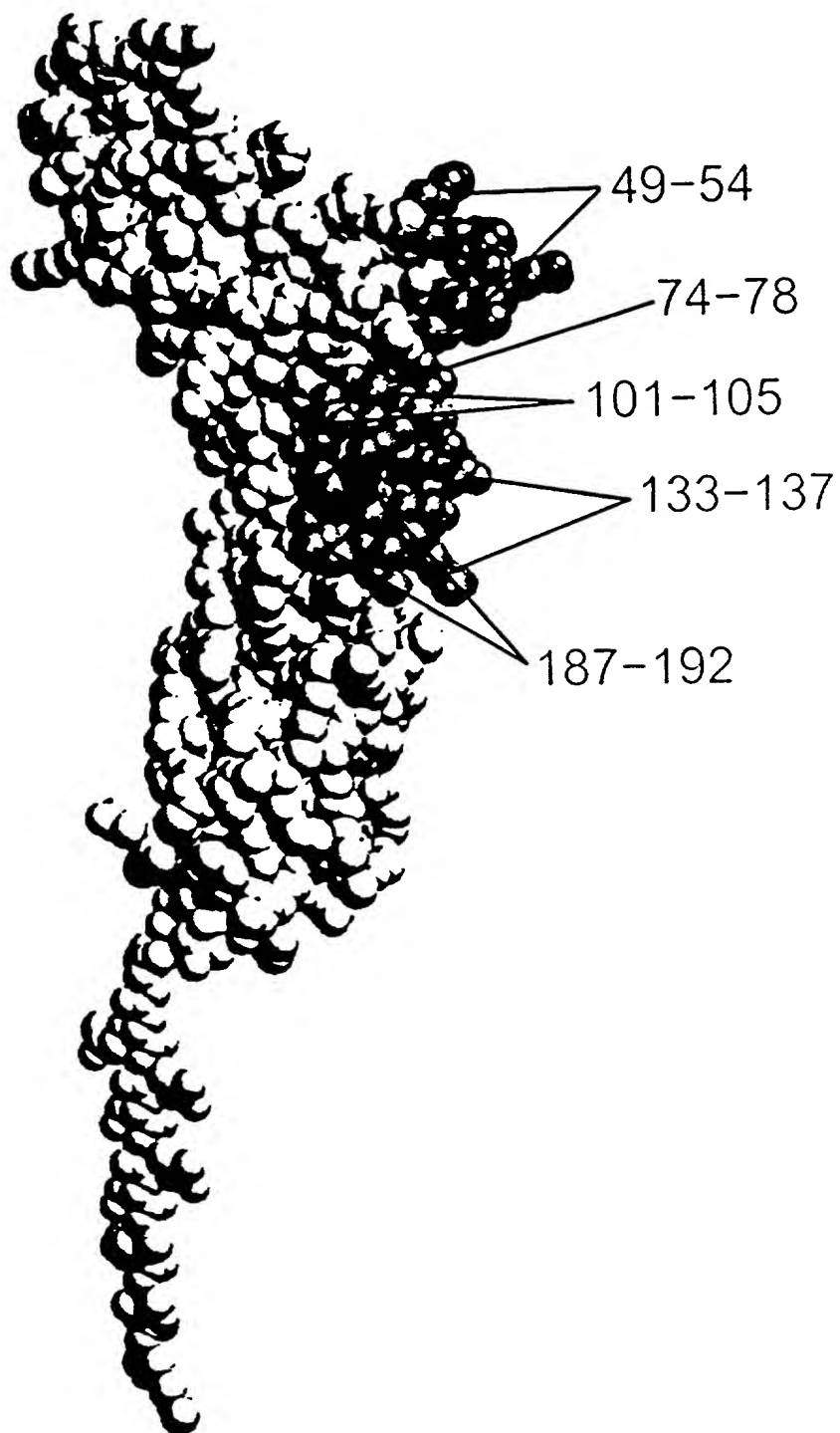
[illegible]

## Figure 2



**Figure 3B**

**Figure 3A**



**Figure 4**

1 GAATTCCTAA AATAGCANA GATGCTTTTG AGCCAGATG CTTTCATCGT CAGATCACCTT AATTGGTTC TCATGGTGTATATATCAGCCTC GTGTTTGTA  
CTTAAGGATT TTTATCGTTT CTACGANAAC TCGGTCTTAC GGAAGTAGCA GTCTAGTGAA TTAACCAAG AGTACCACAT ATAGTCGGAG CACAACCAT  
Ile

human alpha beta receptor

101 TTTCATATGA TTCGCTGTAT TACACAGATG AATCTTGCAC TTTCAGATA TCATTGCGAA ATTTCCGGTC CATCTTATCA TGGGAATTAA AAAACCACTC  
AAGTATACT AAGCGGACTA ATGTGTCTAC TTAGAACGTG AAGTTCTAT AGTAACGCTT TAAAGGCCAG GTAGAATAGT ACCCTTAATT TTTTGGTGAG

2 SerTyra pSerProasp TyrThrAspG luserCysTh rPheLysile SerLeuArga snPheArgSe rIleLeuSer TrpGluLeuL ysAsnHisser

201 CATTGTACCA ACTCACTATA CATTGCTGTA TACAATCATG AGTAAACACAG AAGATTGAA GGTGGTTAAG AACTGTGCAA ATACCACAAG ATCATTTTGT  
GTAAACATGGT TGAGTGATAT GTAACGACAT ATGTTAGTAC TCATTGGTC TCCTAACTT CCACCAATTC TTGACACGTT TATGGTGTTC TAGTAAACA  
35 ILeValPro ThrHisTyrt hrLeuLeuty rThrIleMet SerLysProG luaspLeuly sValVallys AsnCysAlaa snThrThrAr gSerPheCys

301 GACCTCACAG ATGAGTGGAG AAGCACACAC GAGGCCTATG TCACCGTCCT AGAAGGATTC AGCGGAACA CAACGTTGTT CAGTTGCTCA CACAATTTCT  
CTGGAGTGTCT TACTCACCTC TTCGTGTGTG CTCGGGATAC AGTGGCAGGA TCTTCCTAAG TCGCCCTTGT GTTGCAACAA GTCAACGAGT GTGTTAAAGA

68 AspLeuThra spGluTrpAr gserThrHis GlualaTyrv alThrValle uGluGlyPhe SerGlyAsnt hrThrLeuPh eSerCysSer HisAsnPhetip

401 GGCTGGCCAT AGACATGTCT TTGAAACCAC CAGAGTTTGA GATTGTTGGT TTTACCAACC ACATTAATGT GATGGTGAAA TTTCCATCTA TTGTTGAGGA  
CCGACCGGTA TCTGTACAGA AACTTGGTG GTCTCAACT CTAAACAACA AAATGGTTGG TGTAAATACA CTACCACITT AAAGGTAGAT AACAACTCCT

102 LeuAlail eAspMetSer PheGluProp roGluPheGl uIleValGly PheThrAsnH isIleAsnVa lMetVallys PheProSerI leValGluGlu

501 AGAATTACAG TTTGATTTAT CTCTCGTCAT TGAAGAACAG TCAGAGGGA TTGTTAAGAA GCATAAACC GAAATAAAAG GAAACATGAG TGGAAATTTT  
TCTTAATGTC AAATAAATA GAGAGCAGTA ACTTCTGTC AGTCTCCCTT AACAACTCTT CGTATTTGGG CTTTATTTTC CTTTGTACTC ACCTTTAAAG

135 GluLeuGln PheAspLeuS erLeuValil eGluGluGln SerGluGlyI leVallysLy shisLysPro GluileLysG lyAsnMetSe rGlyAsnPhe

601 ACCTATATCA TTGACAAGTT AATTCCAAAC ACGAACTACT GTGTATCTGT TTATTTAGAG CACAGTGATG AGCAAGCAGT AATAAAGTCT CCCTTAAAT  
TGGATATAGT AACTGTTCAA TTAAGGTTTG TGCTTGATGA CACATAGACA AATAAATCTC GTGTCACTAC TCGTTCTGTC TTATTTTCTAGA GGGAATTTTA

168 ThrTyriIeI leAspLysLe uIleProAsn ThrAsnTyrc ysValSerVa lTyrLeuGlu HisserAspG luGlnAlava lIleLysSer ProLeuLysCys

701 GCACCTCCT TCCACCTGGC CAGGAATCAG AATCAGCAGA ATCTGCCGAC AAAACTCACA CATGCCACC GTGCCCAGCA CCTGAACCTC TGGGGGGACC  
CGTGGGAGGA AGGTGGACCG GTCCTTAGTC TTAGTCGTCT TAGACGGCTG TTTGAGTGT GTACGGGTGG CACGGGTCTG GGACTTGAGG ACCCCCCTGG

202 ThrLeuLe uProProGly GlnGluSerG luserAlaGl luserAlaasp LysThrHist hrCysProPr oCysProAla ProGluLeuL euglyGlyPro  
Irgl

801 GTCAGTCTTC CTCTTCCCC CAAAACCCAA GGACACCTC ATGATCTCCC GGACCCCTGA GGTCACTGC GTGGTGGTGG ACGTGAGCCA CGAAGACCTT  
CAGTCAGAAG GAGAAGGGG GTTTGGGT TACTAGAGG CCTGGGACT CCAGTGACG CACCACCACC TGCACCTCGT GCTTCTGGGA

235 SerValPhe LeuPheProp roLysProLy sAspThrLeu MetIleSerA rgThrProGl uValThrCys valvalVala spValSerHi sgluaspPro

Figure 5A

901 GAGGTCAAGT TCAACTGGTA CGTGGACGGC GTGGAGGTCG ATAATGCCAA GACAAAGCCG CGGGAGGAGC AGTACAACAG CACGTACCGA GTGGTCAGCG  
 CTCAGATTCA AGTTGACCAT GCACCTGCCG CACCTCCACG TATTACGGT CTGTTCCGC GCCTCCTCG TCATGTTGTC GTGCATGGCT CACCATGTCG  
 268 GluVallySP heAsnTriPy rValaspGly ValgluValH isAsnAlaLy sThrLysPro ArggluGlug IntYrAsnSe rThrYrArg ValValserVal  
 1001 TCCTCACCGT CCTGCACCCAG GACTGGCTGA ATGGCAAGGA GTACAAGTGC AAGGTCTCCA ACAAGGCCCT CCCAGCCCCC ATCGAGAAAA CCATCTCCAA  
 AGGAGTGGCA GGACGTGGTC CTGACCCGACT TACCGTTCTT CATGTTACG TTCCAGAGGT TGTTCGGGA GGTTCGGGG TAGCTCTTTT GGATAGAGTT  
 302 LeuThrVa lLeuHisGln AspTirLeuA snglyLysG lYrLysCys LysValSera snLysAlaLe uProAlaPro lIleGlulysT hrIleSerLys  
 1101 AGCCAAAGGG CAGCCCCGAG AACCACAGGT GTACACCCTG CCCCATCCC GGAAGAGAT GACCAAGAAC CAGGTCAGCC TGACCTGCCT GGTCAAAGGC  
 TCGGTTTCCC GTCGGGGCTC TTGGTGTCCA CATGTGGAC CATGTCTCTA CTGGTTCTTG GTCCAGTCGG ACTGGACGGA CCAGTTTCCG  
 335 AlaLysGly GlnProArg lUpProGlnVa lYrThrLeu ProProSera rGluGlume tThrLysAsn GlnValSerl euthrCysLe uVallysGly  
 1201 TTCTATCCCA GCGACATCGC CGTGGAGTGG GAGAGCAATG GCGAGCCGGA GAACAACCTAC AAGACCACGC CTCCCGTGCT GGACTCCGAC GGCTCCTTCT  
 AAGATAGGGT CGCTGTAGCG GCACCTCACC CTCTCGTTAC CCGTCGGCTT CTGTGTGATG TTCTGGTGCG GAGGGCACGA CTTGAGGCTG CCGAGGAAGA  
 368 pheTyrPros erAspIleAl aValgluTirP GluSerAsnG lyGlnProGl uAsnAsnTyr LysThrThrP roProValle uAspSerAsp GlySerPhePhe  
 1301 TCCTCTACAG CAAGCTCACC GTGGACAAGA GCAGGTGGCA GCAGGGGAAC GTCTTCTCAT GCTCCGTGAT GCATGAGGCT CTGCACAACC ACTACACGCA  
 AGGAGATGTC GTTCGAGTGG CACCTGTTCT CGTCCACCGT CGTCCCCTTG CAGAAGAGTA CGAGGCACCTA CGTACTCCGA GACGTGTTGG TGATGTGCGT  
 402 LeuTyrSe rLysLeuThr ValAspLysS erArgTirP l nGlnLysn ValPheSerC ysserValme thisGluAla LeuHisAsnH isTyrThrGln  
 1401 GAAGAGCCTC TCCCTGTCTC CGGGTAAATG AGTCCGACCG CCTAGAGTC GACCTGCAGA AGCTTAGAAC CGAGGGGCGG CCATGGGCCA ACTTGTTTAT  
 CTTCTCGGAG AGGACACAGAG GCCCATTTAC TCACGTGCGC GGGATCTCAG CTGGACGTCT TCGAATCTTG GCTCCCCGGG GTTACCAGGT TGAACAATA  
 435 LysSerLeu SerLeuSerP roglyLysOP \* (SEQ ID NO.26) sv40 early  
 1501 TGCAGCTTAT AATGGTTACA AATAAAGCAA TAGCATACA AATTTCACAA ATAAAGCATT TTTTTCACCTG CATTCTAGTT GTGGTTTGTC CAAACTCATC  
 ACGTCGAATA TTACCAATGT TTATTTCGTT ATCGTAGTGT TTAAGTGTT TATTTCGTAA AAAAAGTGAC GTAAAGATCAA CACCAAACAG GTTTGAGTAG  
 1601 AATGTATCTT ATCATGTCTG GATCGATCGG GAATTAATC GCGGCAGCAC CATGGCCTGA AATAACCTCT GAAAGAGGAA CTTGGTTAGG TACCTTCTGA  
 TTACATAGAA TAGTACAGAC CTAGCTAGCC sv40 origin  
 1701 GGGCGAAGA ACCAGCTGTG GAATGTGTGT CAGTTAGGTT GTGGAAGTC CCCAGGCTCC CCAGCAGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT  
 CCGCCTTCT TGGTCGACAC CTTACACACA GTCAATCCCA CACCTTTCAG GGTCCGAGG GGTGTCCTCGT CTTCATACGT TTCGTACGTA GAGTTAATCA  
 1801 CAGCAACCAG GTGTGGAAG TCCCCAGGCT CCCCAGCAGG CAGAAGTATG CAAAGCATGC ATCTCAATTA GTCAGCAACC ATAGTCCCCG CCCTAACTCC  
 GTCGTTGGTC CACACCTTTC AGGGTCCGA GGGTCTGTC GTCTTCATAC GTTTCGTACG TAGAGTTAAT CAGTCGTTGG TATCAGGGCG GGGATTGAGG

Figure 5B

1901 GCCCATCCG CCCCTAACTC CGCCCACTTC CGCCCACTCT CGGCCCACTG GCTGACTAAT TTTTTTTTATT TATGCAGAGG CCGAGGCCGC CTCGGCCTCT  
CGGGTAGGGC GGGGATTGAG GCGGATCAAG GCGGGTAAGA GCGGGGTAC CGACTGATTA AAAAAATAA ATACGTCTCC GGCTCCGGCG GAGCCGGAGA  
  
2001 GAGCTATTCC AGAAGTAGTG AGGAGGCTTT TTTGGAGGCC TAGGCTTTTG CAAAAAGCTG TTAACAGCTT GGCACCTGGCC GTCGTTTAC AACGTCGTGA  
CTCGATAAGG TCTTCATCAC TCCTCCGAAA AACCTCCGG ATCCGAAAAC GTTTTTCGAC AATTGTGAA CCGTAGACCG CAGCAAAATG TTGCAGCACT  
start pUC118  
  
2101 CTGGGAAAAC CCTGGCGTTA CCCAACTTAA TCGCCTTGCA GCACATCCCC CCTTCGCCAG CTGGCGTAAT AGCGAAGAGG CCGGCACCGA TCGCCCTTCC  
GACCCTTTTC GGACCGCAAT GGGTTGAAT AGCGGAACGT CGTGTAGGGG GGAAGCGGTC GACCGCATTA TCGCTTCTCC GGGCGTGGCT AGCGGGAAGG  
  
2201 CAACAGTTGC GTAGCCTGAA TGGCGAATGG CGCCTGATGC GGTATTTCT CCTTACGCAT CTGTGCGGTA TTTCACACCG CATACTCAA AGCAACCATA  
GTTGTCAACG CATCGGACTT ACCGCTTACC GCGGACTACG CCATAAAGA GGAATGCGTA GACACGCCAT AAAGTGTGGC GTATGCAGTT TCGTTGGTAT  
  
2301 GTACGGCCCC TGTAGCGGG CATTAAGCGC GCGGGGTGTG GTGGTTACGC GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCCGC TCCTTTTCGCT  
CATCGCGGG ACATCGCCG GTAATTCGCG CCGCCACAC CACCAATGCG CGTGCACATG GCGATGTGAA CCGTCGCGG ATCGCGGGCG AGGAAAAGCGA  
  
2401 TTCTTCCCTT CCTTCTCGC CAGGTCGCC GGCTTCCCC GTCAAGCTCT AAATCGGGG CTCCCTTTAG GGTTCGATT TAGTGCTTTA CGGCACCTCG  
AAGAAGGGA GGAAGAGCG GTGCAAGCGG CCGAAAGGG CAGTTCGAGA TTTAGCCCC TTTAGGAAAATC CCAAGGCTAA ATCACGAAAT GCCGTGGAGC  
  
2501 ACCCCAAAA ACTTGATTG GGTGATGGT CACGTAGTGG GCCATCGCCC TGATAGACGG TTTTTCGCC TTTTTCGCC GAGTCCACG TCTTTAATAG  
TGGGGTTTTT TGAATAAAC CCACTACCAA GTGCATCACC CGGTAGCGG ACTATCTGCC AAAAAGCGG AACTGCAAC CTCAGGTGCA AGAAATTATC  
  
2601 TGGACTCTTG TTCCAAACTG GAACAACACT CAACCTATC TCGGGCTATT CTTTGTATT ATAAGGATT TTGCCGATT CGGCCCTATT GTTAAAAAAT  
ACCTGAGAAC AAGGTTTGAC CTTGTTGTGA GTTGGGATAG AGCCGATAA GAAAACTAAA TATTCCTTAA AACGGCTAAA GCCGGATAAC CAATTTTTTA  
  
2701 GAGCTGATTT AACAAAAAT TAACGCGAAT TTTAAACAAA TATTAACGTT TACAATTTA TGGTGCACTC TCAGTACAAT CTGCTCTGAT GCCGCATAGT  
CTCGACTAAA TTGTTTTTAA ATTGCGCTTA AAATTGTTTT ATAAATTGCA ATGTTAAAAAT ACCACGTGAG AGTCATGTTA GACGAGACTA CGGCGTATCA  
  
2801 TAAGCCAACT CCGCTATCGC TACGTGACTG GGTCAATGGCT GCGCCCCGAC ACCCGCTGAC GCGCCCTGAC GGGCTTGTCT GCTCCCGGCA  
ATTGCGTTGA GCGGATAGCG ATGCACTGAC CCAGTACCGA CCGGGGGCTG TGGGCGGTTG TGGGCGACTG CCGGGGACTG CCCGAACAGA CGAGGGCCGT  
  
2901 TCCGCTTACA GACAAGCTGT GACCGTCTCC GGGAGCTGCA TGTGTCAGAG GTTTTCACCG TCATACCGA AACGGCGGAG GCAGTATTCT TGAAGACGAA  
AGGCGAATGT CTGTTGACA CTGGCAGAG CCCTCGACGT ACACAGTCTC CAAAAGTGGC AGTAGTGGCT TTGGCGGCTC CGTCATAAGA ACTTCTGCTT  
  
3001 AGGGCCTCGT GATACGCCTA TTTTATAGG TTTAATGTCAT GATAATAATG GTTCTTAGA CGTCAGGTGG CACTTTTTCG GGAATGTGC GCGGAACCCC  
TCCCGAGCA CTATGCGGAT AAAAATATCC AATTACAGTA CTATTATTAC CAAAGAATCT GCAGTCCACC GTGAAAAGCC CCTTTACAG CGCCTTGGG

Figure 5C

3101 TATTTGTTTA TTTTCTTAAA TACATTCAAA TATGTAATCCG CTCTATGAGAC AATAACCCCTG ATAAATGCTT CAATAATATT GAAAAAGGAA GAGTATGAGT  
 ATAAACAAAT AAAAAGATTT ATGTAAGTTT ATACATAGGC GAGTACTCTG TTATTGGGAC TATTACGAA GTTATTATAA CTTTTTCCTT CTCATACTCA

3201 ATTCAACATT TCGGTGTCG CCTTATTCCT TTTTTTGGG CATTTTGCCT TCCTGTTTTT GCTCACCAG AAACGCTGGT GAAAGTAAAA GATGCTGAAG  
 TAAGTTGTAA AGGCACAGCG GGAATAAGGG AAAAAACGCC GTAAAAACGGA AGACAAAAA CGAGTGGTC TTTCGACCA CTTTCATTTT CTACGACTTC

3301 ATCAGTTGGG TGCACGAGTG GGTACATCG AACTGGATCT CAACAGCGGT AAGATCCCTG AGAGTTTTTCG CCCCAGAGAA CGTTTTCCAA TGATGAGCAC  
 TAGTCAACCC ACGTGCTCAC CCAATGTAGC TTGACCTAGA GTTGTGCCA TTCTAGGAAC TCCTCAAAAGC GGGGCTTCTT GCAAAAAGGTT ACTACTCGTG

3401 TTTTAAAGTT CTGCTATGTG GCGCGTATT ATCCCGTGAT GACGCCGGC AAGAGCAACT CCGTCGCCG ATACACTATT CTCAGAATGA CTTGGTTGAG  
 AAAATTTCAA GACGATACAC CGCGCCATAA TAGGGCACTA CTGCGGCCCG TTCTCGTTGA GCCAGCGCG TATGTGATAA GAGTCTTACT GAACCAACTC

3501 TACTCACCCG TCACAGAAAA GCATCTTACG GATGGCATGA CAGTAAGAGA ATTATGCAGT GCTGCCATAA CCATGAGTGA TAACACTGCG GCCAACTTAC  
 ATGAGTGGTC AGTGCTCTTT CGTAGAATGC CTACCGTACT GTCAATTCTCT TAATACGTCA CGACGGTATT GGTACTCACT ATTGTGACGC CGGTTGAATG

3601 TTCTGACAAC GATCGGAGGA CCGAAGGAGC TAACCGCTTT TTTGCACAAC ATGGGGATC ATGTAACCTG CCTTGATCGT TGGGAACCGG AGCTGAATGA  
 AAGACTGTTG CTAGCCTCCT GGCTTCCTCG ATTGGCGAAA AAACGTGTTG TACCCCTAG TACATTGAGC GGAACCTAGCA ACCCTTGGCC TCGACTTACT

3701 AGCCATACCA AACGACGAGC GTGACACCAC GATGCCAGCA GCAATGGCAA CAACGTTGCG CAAACTATTA ACTGGCGAAC TACTTACTCT AGCTTCCCGG  
 TCGGTATGGT TTGCTGCTCG CACTGTGGTG CTAACGCTGT CGTTACCGTT GTTGCAACGC GTTTGATAAT TGACCGCTTG ATGAATGAGA TCGAAGGGCC

3801 CAACAATTAA TAGACTGGAT GGAGGCGGAT AAAGTTGCAG GACCACCTCT GCGCTCGGCC CTTCGGGCTG GCTGGTTTAT TGCTGATAAA TCTGGAGCCG  
 GTTGTTAATT ATCTGACCTA CCTCGCCTA TTTCAACGTC TTTCAACGTC CCGAGCCCG GAAGCCGAC CGACCAATA ACGACTATTT AGACCTCGGC

3901 GTGAGCGTGG GTCTCGCGGT ATCATTGCAG CACTGGGGCC AGATGGTAAG CCCTCCCCTA TCGTAGTTAT CTACACGACG GGGAGTCAGG CAACTATGGA  
 CACTCGCAC CAGAGCGCCA TAGTAACGTC GTGACCCCGG TCTACCATTC GGGAGGGCAT AGCATCAATA GATGTGCTGC CCTCAGTCC GTTGATACCT

4001 TGAACGAAAT AGACAGATCG CTGAGATAGG TGCCTCACTG ATTAAGCATT GGTAACCTGTC AGACCAAGTT TACTCATATA TACTTTAGAT TGATTTAAAA  
 ACTTGCTTTA TCTGTCTAGC GACTCTATCC ACGGAGTGAC TAATTCTGTAA CCAATTGACAG TCTGGTTCAA ATGAGTATAT ATGAAATCTA ACTAAAAATTT

4101 CTTCAATTTT AATTTAAAA GATCTAGGTG AAGATCCCTTT TTGATAATCT CATGACCAA ATCCCTTAAC GTGAGTTTTC GTTCCACTGA GCGTCAGACC  
 GAAGTAAAA TTAATTTTC CTAGATCCAC TTCTAGGAAA AACTATTAGA GTACTGGTTT TAGGGAATTG CACTCAAAA CAAAGTGACT CGCAGTCTGG

4201 CCGTAGAAAA GATCAAAAGGA TCTTCTTGAG ATCTTTTTTT TCTGCGCGTA ATCTGTGCT TGCAAAAA AAAACCCACG CTACCAGCGG TGGTTTGT  
 GGCATCTTT CTAGTTTCT AGAAGAACTC TAGGAAAAA AGACGGCAT TAGACGACGA ACGTTTGT TTTTGGTGGC GATGTGCGCC ACCAAAAAAA

4301 GCCGGATCAA GAGCTACCAA CTCTTTTTCC GAAGGTAAC TGGTTTCTAG GTCCCTTCTAG TGTAGCCGTA GTTAGGCCAC GTTAGGCCAC  
 CGGCCTAGTT CTCGATGGTT GAGAAAAAGG CTTCCATTGA CCGAAGTCGT CTCGCGTCTA TGGTTTATGA CAGGAAGATC ACATCGGCAT CAATCCGGTG

Figure 5D



4401 CACTTCAAGA ACTCTGTAGC ACGCCTACA TACCTGGCTC TGCTTAATCCT GTTACCAGTG GCTGCTGCCA GTGGCGATAA GTCGTGTCTT ACCGGGTTGG  
 GTGAAGTTCT TGAGACATCG TGGCGGATGT ATGGAGCGAG ACGATTAGGA CAATGGTCA CACAGACGGT CACCGCTATT CAGCACAGAA TGGCCCAACC

4501 ACTCAAGACG ATAGTTACCG GATAAGGCGC AGCGTTCGGG CTGAACGGGG GGTTCGTGCA CACAGCCCAG CTTGGAGCGA ACGACCTACA CCGAACTGAG  
 TGAGTTCTGC TATCAATGGC CTATTCCGCG TCGCCAGCCC GACTTGCCCC CCAAGCACGT GTGTGGGTC GAACCTCGT TGTGGATGT GGCTTGACTC

4601 ATACCTACAG CGTGAGCATT GAGAAAGCGC CACGCTTCCC GAAGGGAGAA AGCGGACAG GTATCCGGTA AGCGGCAGGG TCGGAACAGG AGAGCGCACG  
 TATGGATGTC GCACTCGTAA CTCTTTTCGCG GTCGGAAGGG CTTCCTCTTT TCCGCTGTC CATAGGCCAT TCGCCGTCCC AGCCTTGTCC TCTCGCGTGC

4701 AGGAGCTTC CAGGGGAAA CGCCTGGTAT CTTTATAGTC CTGTGGGTT TCGCCACCTC TGACTTTGAGC GTCGATTTT GTGATGCTCG TCAGGGGGGG  
 TCCCTCGAAG GTCCCCCTT GCGACCATA GAAATATCAG GACAGCCCAG AGCGTGGAG ACTGAACTCG CAGCTAAAAA CACTACGAGC AGTCCCCCCC

4801 GGAGCCTATG GAAAAACGCC AGCAACGCGG CCTTTTACG GTTCTTGGC TTTTGTCTCA CATGTTCTTT CCTGCGTTAT CCCCTGATTC  
 CCTCGGATAC CTTTTCGG TCGTTGCGG TCGTTGCGC GAAAAATGC CAAGGACCG GAAAAACGAGT GTACAAGAAA GGACGCAATA GGGGACTAAG

4901 TGTGGATAAC CGTATTACCG CTTTGTAGTG AGCTGATACC GCTCGCCGCA GCGGCGCAGC GAGTCAGTGA GCGAGGAAGC GGAAGAGCGC  
 ACACCTATTG GCATAATGCG GGAACCTCAC TCGACTATGG CGAGCGCGCT CGGCTTGTG GCTCGCGTCG CTCAGTCACT CGCTCCTTCG CCTTCTCGCG

5001 CCAATACGCA AACCGCCTCT CCCCGCGGT TGGCCGATTC ATTAATCCAG CTGGCACGAC AGGTTTCCCG ACTGGAAGC GGGCAGTGAG CGCAACGCAA  
 GGTATGCGT TTGGCGGAGA GGGCGCGCA ACCGGCTAAG TAATTAGTGC GACCGTGTG TCCAAAGGGC TGACCTTTTCG CCCGTCACTC GCGTTGCGTT

5101 TTAATGTGAG TTACCTCACT CATTAGGCAC CCCAGGCTTT ACACTTTATG CTTCGGGCTC GTATGTTGTG TGGAAATTGT AGCGGATAAC AATTCACAC  
 AATTACACTC AATGGAGTGA GTAATCCGTG GGTCCGAAA TGTGAAATAC GAAGGCCGAG CATAACACAC ACCTTAACAC TCGCCTATTG TTAAAGTGTG

5201 AGGAAACAGC TATGACCATG ATTACGAATT AATTCGAGCT CGCCCGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA  
 TCCTTTGTG ATACTGGTAC TAATGCTTAA TTAAGCTCGA GCGGGCTGTA ACTAATAACT GATCAATAAT TATCATTAGT TAATGCCCCA GTAATCAAGT

from pPMLCMV beginning to HindIII, enhancers and promoter

5301 TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCCG CTGGCTGACC GCCCAACGAC CCCCCCCCAT TGACGTCAAT AATGACGTAT  
 ATCGGGTATA TACCTCAAGG CGCAATGTAT TGAATGCCAT TTACCGGGCG GACCGACTGG CGGGTGCTG GGGCGGGTA ACTGCAGTTA TTA CTGTCATA

5401 GTTCCCATAG TAACGCCAAT AGGACTTTT CATTGACGTC AATGGGTGGA GTATTTACGG TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC  
 CAAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACCTGCAG TTACCCACCT CATAAATGCC ATTTGACGGG TGAACCGTCA TGTAGTTTAC ATAGTATACG

5501 CAAGTACGCC CCCTATTGAC GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCAGT ACATGACCTT ATGGGACTTT CTACTTTGGC AGTACATCTA  
 GTTCATGCGG GGGATAACTG CAGTTACTGC CATTTACCG GCGGACCGTA ATACGGGTCA TGTACTGGAA TACCTGAAA GGATGAACCG TCATGTAGAT

**Figure 5E**

5601 CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTGG CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC  
GCATAATCAG TAGCGATAAT GGTACCACTA CGCCAAACC GTCATGTAGT TACCCGCACC TATCGCCAAA CTGAGTGCCC CTAAAGGTTT AGAGGTGGGG  
5701 ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAATCAAC GGGACTTTCC AAAATGTCGT AACAACTCCG CCCCATTTGAC GCAAAATGGGC GGTAGGCGTG  
TAACTGCAGT TACCCTCAA TACCTCTGAG GTTTTAGTTG CCTGAAAGG TTTTACAGCA TTGTIGAGGC GGGGTAAC TG TTTTACCCG CCATCCGCAC  
5801 TACGGTGGGA GGTCTATATA AGCAGAGCTC GTTTAGTGAA CCGTCAGATC GCCTGGAGAC GCCATCCACG CTGTTTTGAC CTCCATAGAA GACACCGGGA  
ATGCCACCCCT CCAGATATAT TCGTCTCGAG CAAATCACCTT GGCAGTCTAG CGGACCTCTG CGGTAGGTGC GACAAAAC TG GAGGTATCTT CTGTGGCCCT  
5901 CCGATCCAGC CTCCGCGGCC GGAACGGTG CATTTGGAACG CGGATTCCCC GTGCCAAGAG TGACGTAAGT ACCGCCTATA GAGTCTATAG GCCCACCCCC  
GGCTAGGTCG GAGGCGCCCG CCTTTGCCAC GTAAACCTTGC GCCTAAGGG CACGGTTCTC ACTGCATTCA TGGCGGATAT CTCAGATATC CGGGTGGGG  
6001 TTGGCTCGTT AGAACGCGGC TACAATTAAAT ACATAACCTT ATGTATCATA CACATACGAT TTAGGTGACA CTATAGAATA ACATCCACTT TGCCTTTCTC  
AACCAGACAA TCTTGCGCCG ATGTTAAATTA TGTATTGGAA TACATAGTAT GTGTATGCTA AATCCACTGT GATATCTTAT TGTAGGTGAA ACGGAAAAGAG  
sp6 promoter  
6101 TCCACAGGTG TCCACTCCCA GGTCCAAC TG CAGGCCATGG CGGCCATCGA TT (SEQ ID NO.25)  
AGGTGTCAC AGGTGAGGCT CCAGGTTGAC GTCCGGTACC GCCGGTAGCT AA  
cloning linker  
sp6 RNA start

Figure 5F